Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/15/2015 10/15/2015	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.		1	
LM End	0.00	Issue Type +	Ma	Location *		N/A	
Category	GPS La	atitud	le/Longitude				
Category	Category					End	
Item	Operations & Maintenance				٥		٥
item	Manuals				٥		٥
DWR ID	DWR_RD0	017_01_s _ 201	3_1				
		Action/	Comme	nts			
Inspector	Comments	: LMA has a	copy of the	he manual o	on fi	le.	

No Photos

Rating ** Issue No. LM Start 0.00 Α 2 LM End 0.00 Issue Type + Ma Location * N/A Earthen Levee GPS Latitude/Longitude Category End Start **Emergency Supplies &** Item Equipment DWR ID DWR_RD0017_01_s _ 2013_2 Action/Comments Inspector Comments: LMA has adequate flood fight supplies.

No Photos

Rating ** Issue No. 0.00 LM Start Issue Type + Ma Location * N/A 0.00 LM End Earthen Levee GPS Latitude/Longitude Category Flood Preparedness & Training Item DWR ID DWR_RD0017_01_s _ 2013_3 Action/Comments

No Photos

Inspector Comments: District staff are involved in yearly training sponsored by DWR.

CR : Crown

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence

En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/15/2015 10/15/2015	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.		2	
LM End	1.08	Issue Type +	e Type + Ma L		Location *		
Category				GPS Latitude/Longitude			
Calegory					Start		
Item	DWR Eros	sion Survey		37.90253	30°	37.902530	0
пеш					90°	-121.325690	0
DWR ID							

Action/Comments

Inspector Comments: 06/24/2015: No significant change observed.

6/19/2014: No significant change observed. 08/13/2013: No significant change at this site.

08/07/2012: The erosion is nearly vertical, and has developed upward to halfway of the levee slope. The protecting concrete blocks have been washed away. Animal activities are visible. [2015 Site ID:RD0017U02RM44.32]

LM Start	1.08	Rating **	U	Issue No.	2 (cont)
LM End	1.08	Issue Type +	Ma	Location *	WS



Front view of the erosion site. Note the concrete blocks and vegetation.



Close view of the erosion.

LM Start	1.16	Rating **	С	Issue No.		78	
LM End	1.16	Issue Type +	Ma	Location *		LS	
Catagony	Earthen Levee			GPS Latitude/Longitude			
Category			Start		End		
Item	Erosion /	Bank Caving		37.9013	18 °	37.901318	٥
пеш				-121.3255	22 °	-121.325522	0
DWR ID	DWR_RD0	017_02_s _ 201	15_78				
		Action/	Comme	nts			

Schedule repair of erosion site prior to the next inspection. Inspector Comments: Sink hole (4' x 18" x 5')next to pipe.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side	A : Acceptable M : Minimally Acceptable	N : Not Inspected/Rated C : Corrected	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/15/2015 10/15/2015	Richard Willoughby

LM Start	1.29	Rating **	С	Issue No.		3	
LM End	1.29	Issue Type +	Ma	Location *	WS		
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR Ero	sion Survey		37.8995	10 °	37.899510	0
пеш				-121.32603	30°	-121.326030	0
DWR ID							
		A -4: /	C	-1-			

Action/Comments

Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: The erosion has been repaired. A minor erosion is still visible near the tree.

08/13/2013: A mid-size tree is present immediately upstream of the erosion, which could block the view of the site. Some debris is visible. [2015 Site ID:RD0017U02RM44.52]

LM Start	2.66	Rating **	С	Issue No.	5	
LM End	2.66	Issue Type +	Ma	Location *	WS	
Category	Suppleme		GPS Latitude/Longitude			
Calegory			Start		End	
Item	DWR Ero	sion Survey		37.8810	20°	37.881020 °
item				-121.33220	60°	-121.332260 °
DWR ID						

Action/Comments

Inspector Comments: 06/24/2015: Erosion has been repaired. 6/19/2014: The erosion was probably caused by the irrigation pipe found at the site. [2015 Site ID:RD0017U02RM45.94]

No Photos

No Photos

LM Start	2.67	Rating **	М	Issue No.		6	
LM End	2.69	Issue Type +	Ma	Location *		WS	
Category	Suppleme	pplemental			GPS Latitude/Longitude		
Category				Start		End	
Item	DWR Ero	sion Survey		37.8807	10°	37.880710 °	
item				-121.33220	00 °	-121.332200 °	
DWR ID						·	

Action/Comments

Inspector Comments: 06/24/2015: Levee has been cut at the mid slope and a temporary step has been made for unknow purpose. More erosion has been found at the site.

6/19/2014: The erosion is in the river bank which has an estimated 10-ft wide berm. [2015 Site ID:RD0017U02RM45.95]



Front view of the erosion site. Note the new cut at the middle levee slope.

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable CR : Corrected U : Unacceptable U : Unacceptable U : M : Acceptable WS : Acceptable U : Unacceptable U : Unacc

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/15/2015 10/15/2015	Richard Willoughby

LM Start	2.67	Rating **	М	Issue No.		6 (cont)		
LM End	2.69	Issue Type +	Ma	Location *		Location *		WS
Supplemental Supplemental			GPS Latitude/Longitude					
Category				Start		End		
Item	DWR Erosion Survey			37.8807	10°	37.880710 °		
item				-121.33220	00°	-121.332200 °		
DWR ID								

Action/Comments

Inspector Comments: 06/24/2015: Levee has been cut at the mid slope and a temporary step has been made for unknow purpose. More erosion has been found at the site.

6/19/2014: The erosion is in the river bank which has an estimated 10-ft wide berm. [2015 Site ID:RD0017U02RM45.95]



Close view of the erosion.

No Photos

LM Start	2.78	Rating **	С	Issue No.		7	
LM End	2.79	Issue Type +	Ma	Location *		WS	
Supplemental Supplemental			GPS La	atitud	le/Longitude		
Category				Start		End	
Item	DWR Erosion Survey			37.8792	93 °	37.879293 °	
item				-121.3325	18 °	-121.332518 °	
DWR ID							

Action/Comments

Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: The erosion has been repaired.

08/13/2013: Found during boat survey. There is vegetation at the site. [2015 Site ID:RD0017U02RM46.03]

LM Start	2.82	Rating **	М	Issue No.		8		
LM End	2.82	Issue Type +	Ма	Location *		Location *		WS
Category Supplemental			GPS La	atitud	e/Longitude			
				Start		End		
Item	DWR Ero	sion Survey		37.8786	60°	37.878660 °		
item				-121.3324	00°	-121.332400 °		
DWR ID								

Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: A pocket erosion was found during the boat survey. [2015 Site ID:RD0017U02RM46.1]

Action/Comments



Front view of the erosion.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side	A : Acceptable M : Minimally Acceptable	N : Not Inspected/Rated C : Corrected	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/15/2015 10/15/2015	Richard Willoughby

LM Start	2.82	Rating **	М	Issue No.	8 (cont)				
LM End	2.82	Issue Type +	Ма	Location *		Location *		WS	
Supplemental Supplemental			GPS Latitude/Longitude						
Category				Start		End			
Item	DWR Erosion Survey			37.8786	° 06	37.878660	0		
item				-121.3324	00°	-121.332400	0		
DWR ID									

Action/Comments

Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: A pocket erosion was found during the boat survey. [2015 Site ID:RD0017U02RM46.1]



Close view of the erosion. The slope protection is poor.

LM Start	3.63 Rating ** M			Issue No.		10	
LM End	3.63	3.63 Issue Type + Ma		Location *		WS	
Supplemental			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	DWR Erosion Survey			37.8685	00 °	37.868500	
item		-121.3276	70 °	-121.327670			
DWR ID							

Action/Comments

Inspector Comments: 06/24/2015: No significant change observed. 06/19/2014: The erosion is near a large tree and probably has been caused by the irrigation pipe on the site. [2015 Site ID:RD0017U02RM46.89]



Front view of the erosion. Note the tree and the irrigation pipe.

LM Start	3.63	Rating **	М	Issue No.	10 (cont)
LM End	3.63	Issue Type +	Ma	Location *	WS



Close view of the erosion.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/15/2015 10/15/2015	Richard Willoughby

LM Start	5.52	Rating **	A/W	Issue No.		76
LM End	5.52	Issue Type +	Ma	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End
Item	Animal Co	ontrol		37.85011	8 °	37.850118
пеш				-121.32018	8 °	-121.320188
DWR ID	DWR_RD0017_02_s _ 2012_76					
		A - 1' /	<u> </u>	-1-		

Action/Comments

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comments: Rodent holes has been backfilled, but should be monitored.

No Photos

Rating ** A/W Issue No. LM Start 6.74 79 LM End 6.74 Issue Type + Ma Location * LS Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 37.838810 ° 37.838810 ° Item -121.316600 ° -121.316600 ° DWR ID DWR_RD0017_02_s _ 2015_79

Action/Comments

Remove the wild growth other than native grasses from the levee slopes.

Inspector Comments: Remove cactus on waterward slope.

No Photos

7.19 Rating ** A/W Issue No. LM Start LS 7.19 Issue Type + Location * LM End Earthen Levee GPS Latitude/Longitude Category End Trim / Thin Trees 37.833162° 37.833162° Item -121.312715 ° -121.312715 ° DWR_RD0017_02_s _ 2013_18 DWR ID Action/Comments

Trim trees to at least five feet above ground level.

No Photos

* Location LS : Land Side N/A : Not Applicable

CR : Crown

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated : Corrected A/W: Acceptable but Monitor & Maintain Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/15/2015 10/15/2015	Richard Willoughby

LM Start	7.42	Rating **	М	Issue No.		4	
LM End	7.42	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Trim / Thi	m / Thin Trees			50°	37.830350	0
пеш			-121.3108	80°	-121.310880	0	
DWR ID	DWR_RD0	017_02_s _ 201	12_4				
	Action/Comments						
Trim trees	Trim trees to at least five feet above ground level.						

No Photos

LM Start	7.58	Rating **	М	Issue No.		25	
LM End	7.60	Issue Type +	Ma	Location *	LS		
Catagonia Earthen Levee		GPS Latitude/Longitude					
Category				Start		End	
Vegetation			37.82809	95 °	37.827920 °		
item				-121.30994	15 °	-121.309847 °	
DWR ID DWR_RD0017_02_s _ 2012_25							
Action/Comments							

Elderberries are blocking visibility and flood fight capability.

Photo 1 of 1 : FA_2015_RD0017_304_25_20150914_00007.jpg



Elderberry blocking view of landside slope and toe.

Photo 1 of 1: FA_2015_RD0017_304_9_20150914_00005.jpg

LM Start	9.28	Rating **	U	Issue No.		9	
LM End	9.28	Issue Type +	Ma	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Vegetation Item			37.81524	13 °	37.815243 °		
item				-121.317470 °		-121.317470 °	
DWR ID DWR_RD0017_02_s _ 2012_9							
Action/Comments							

Trees / Woody Vegetation

Inspector Comments: Bamboo located at landward toe.



Looking east at bamboo at landward toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/15/2015 10/15/2015	Richard Willoughby

LM Start	10.64	Rating **	М	Issue No.	80		
LM End	10.64	Issue Type +	Ма	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Vegetation			37.805787 °		37.805787	
item				-121.322022 °		-121.322022	
DWR ID DWR_RD0017_02_s _ 2015_80							
Action/Comments							
Elderberries are blocking visibility and flood fight capability.							

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement